

Abstract

A digital image reading system including an image sensor and a computer that is programmed to adjust the frame rate of the image sensor, and to obtain a maximum frame rate of the image sensor for obtaining an acceptable image. An algorithm for adjusting the frame rate evaluates image parameters and calculates new exposure times, gain values, and exposure settings to support a maximum frame rate of the image sensor. A process for obtaining an acceptable image with an image reader evaluates an image signal level and adjusts the frame rate if the signal level is outside of a predetermined range. The process adjusts the image sensor to run at a maximum operational frame rate. A digital image reading system including multiple separate digitizers for use in various read environments and under various read conditions.